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**Kim et al.**

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(54) **PEDESTAL AND LAUNDRY PROCESSING APPARATUS HAVING THE SAME**

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Jul. 8, 2014 (KR) ..... 10-2014-0085418

(51) **Int. Cl.**

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| ***F16M 11/00*** | (2006.01) |
| ***F16M 9/00*** | (2006.01) |
| ***F16M 13/00*** | (2006.01) |
| ***D06F 39/12*** | (2006.01) |
| ***D06F 49/06*** | (2006.01) |
| ***D06F 29/00*** | (2006.01) |

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CPC ..... ***F16F 15/08*** (2013.01); ***D06F 29/00*** (2013.01); ***D06F 39/125*** (2013.01); ***D06F 49/06*** (2013.01); ***F16M 9/00*** (2013.01); ***F16M 11/00*** (2013.01); ***F16M 13/00*** (2013.01); *F16M 2200/02* (2013.01)

(58) **Field of Classification Search**

CPC .. F16M 9/00; F16M 2200/02; D06F 39/125; D06F 39/12; D06F 39/00; D06F 49/06; D06F 37/26; D06F 37/20; D06F 31/00; A47B 95/00

USPC ..... 248/637, 638, 672, 673, 674, 678; 403/408.1

See application file for complete search history.

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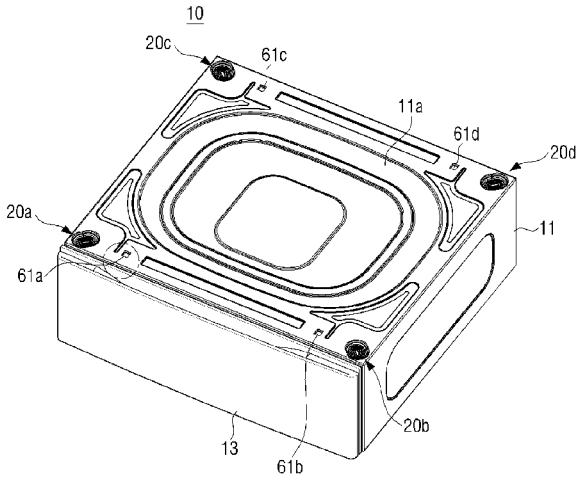
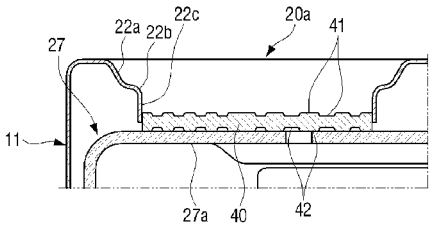
(57) **ABSTRACT**

A pedestal and a laundry processing apparatus having the same. The pedestal includes a frame portion on which a plurality of legs coupled to a bottom surface of a laundry processor are seated, a housing configured to surround the frame portion, and a plurality of seat portions recessively formed on an upper portion of the housing to form a plurality of leg seat points.

**19 Claims, 21 Drawing Sheets**



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# FIG. 1

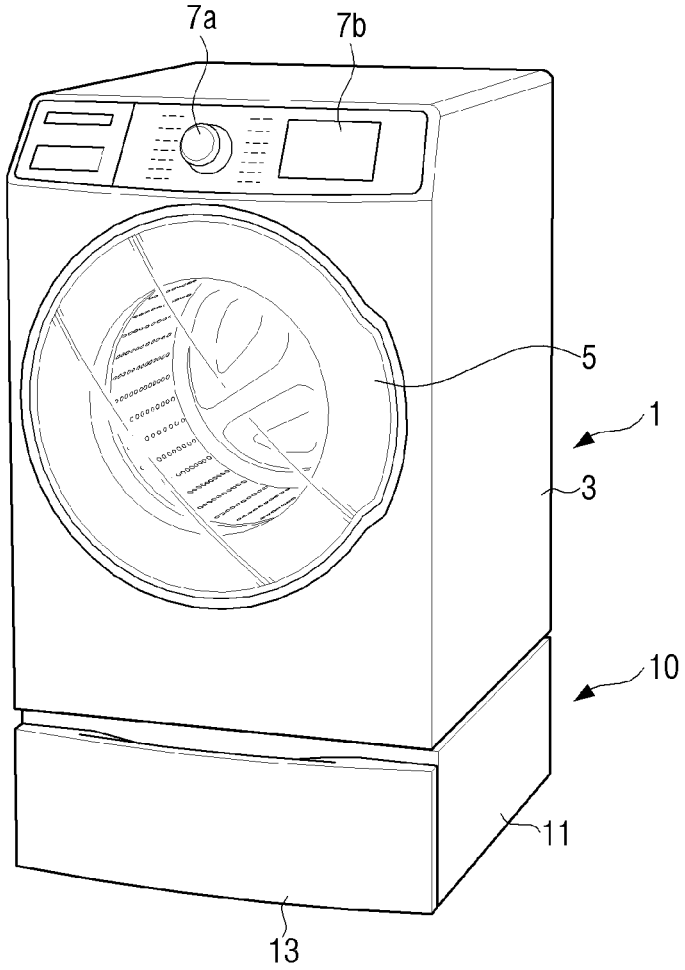


FIG. 2

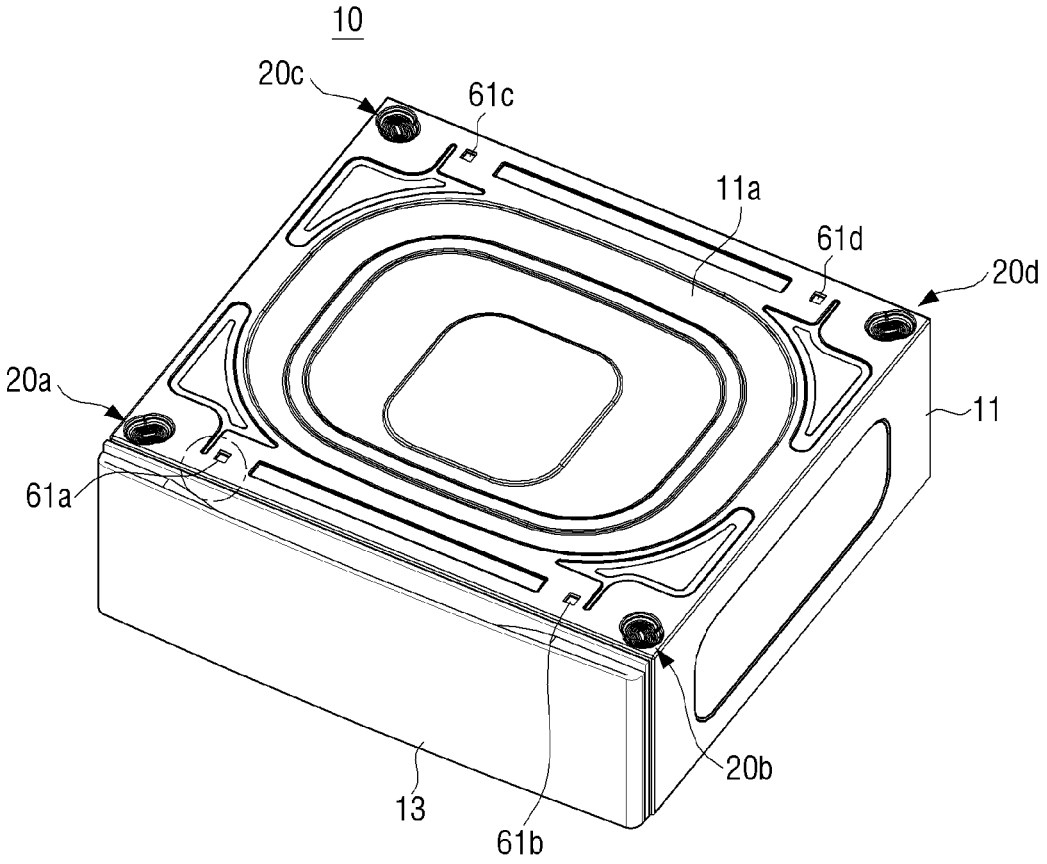
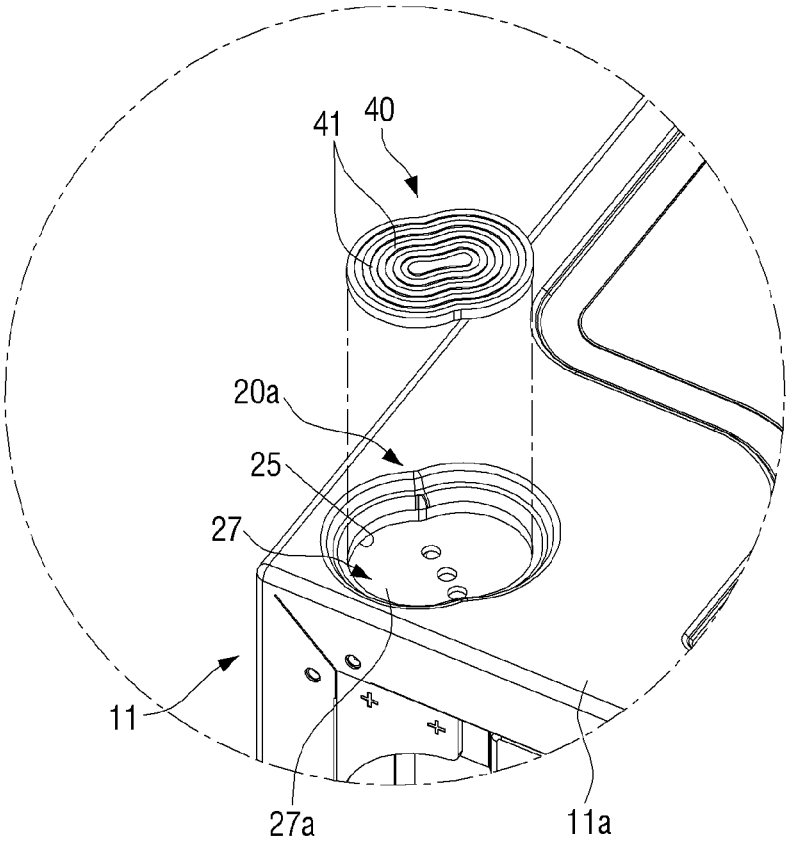


FIG. 3



# FIG. 4

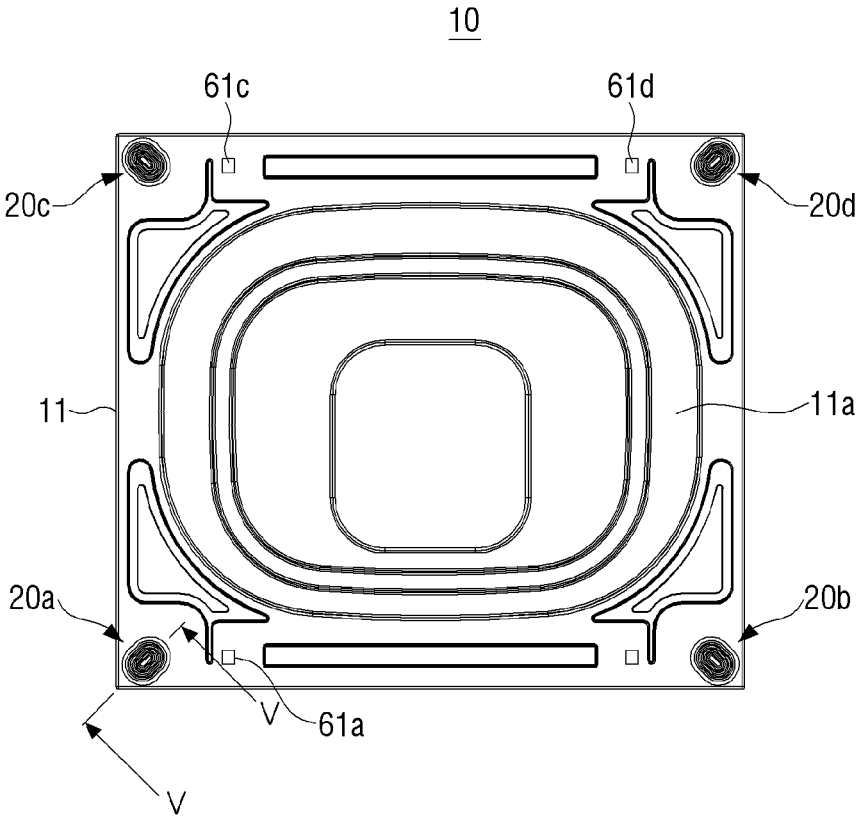
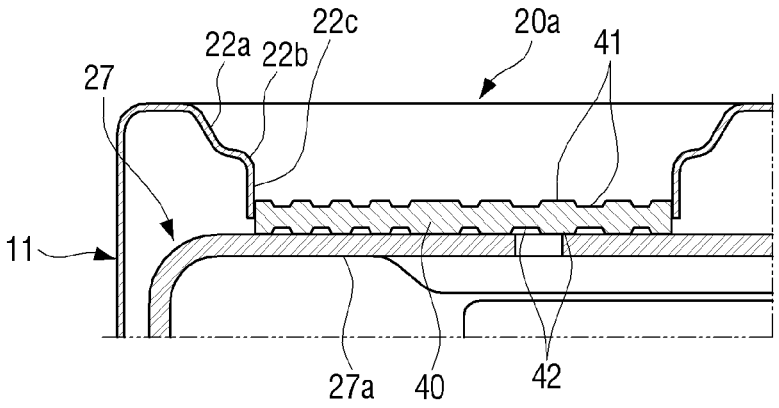


FIG. 5



# FIG. 6

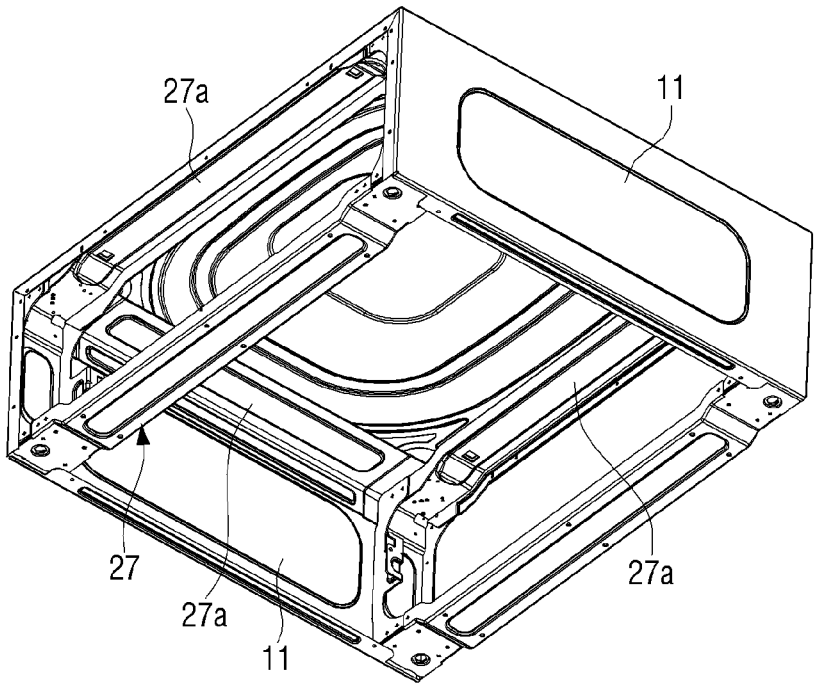


FIG. 7

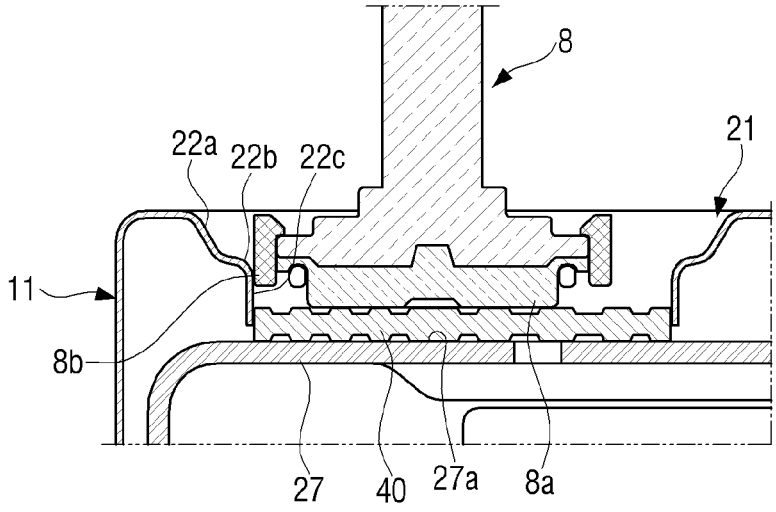


FIG. 8A

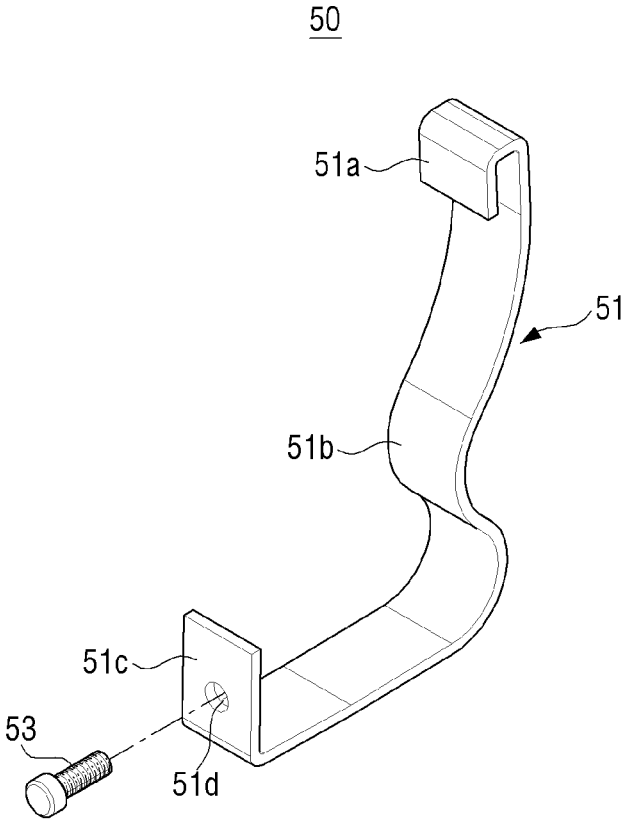


FIG. 8B

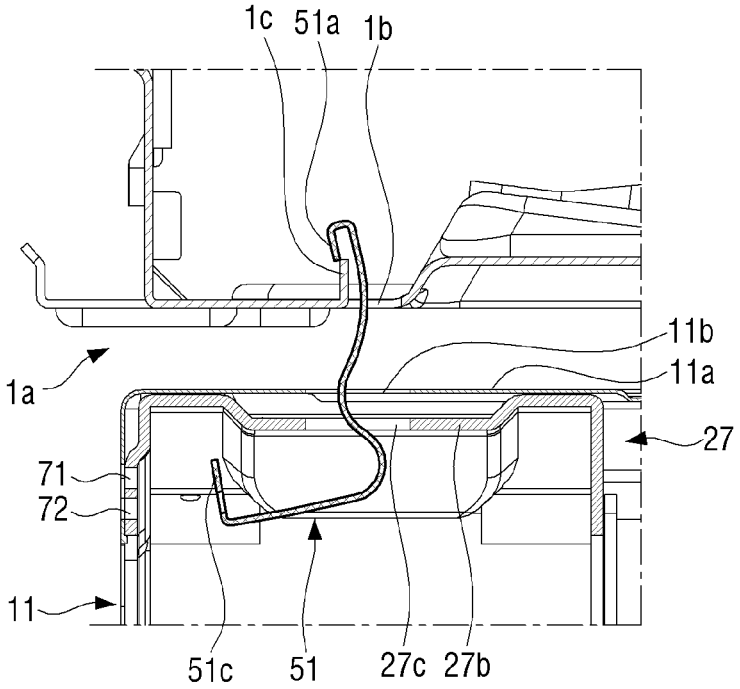


FIG. 8C

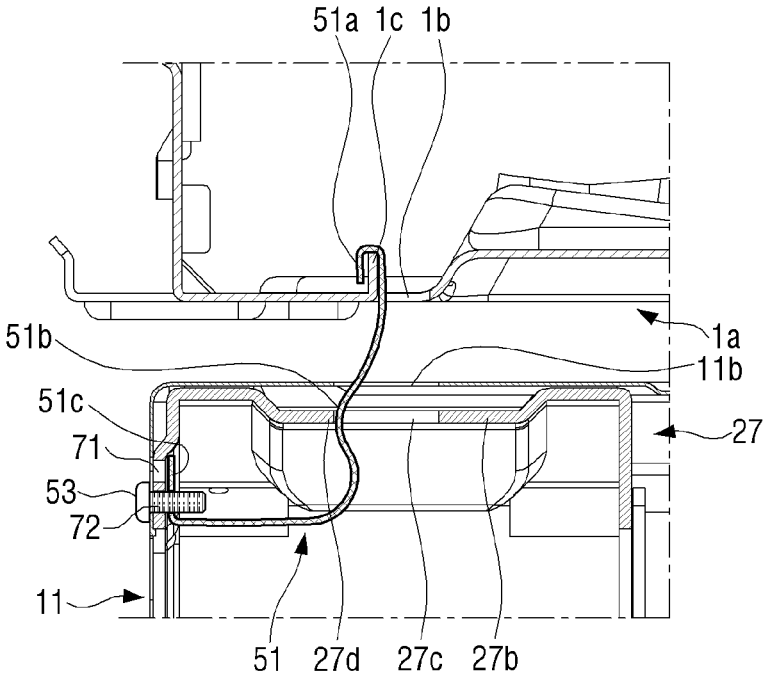
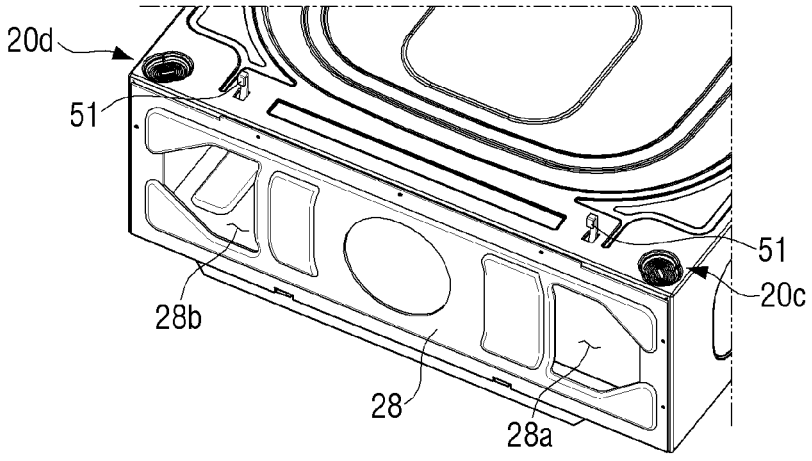
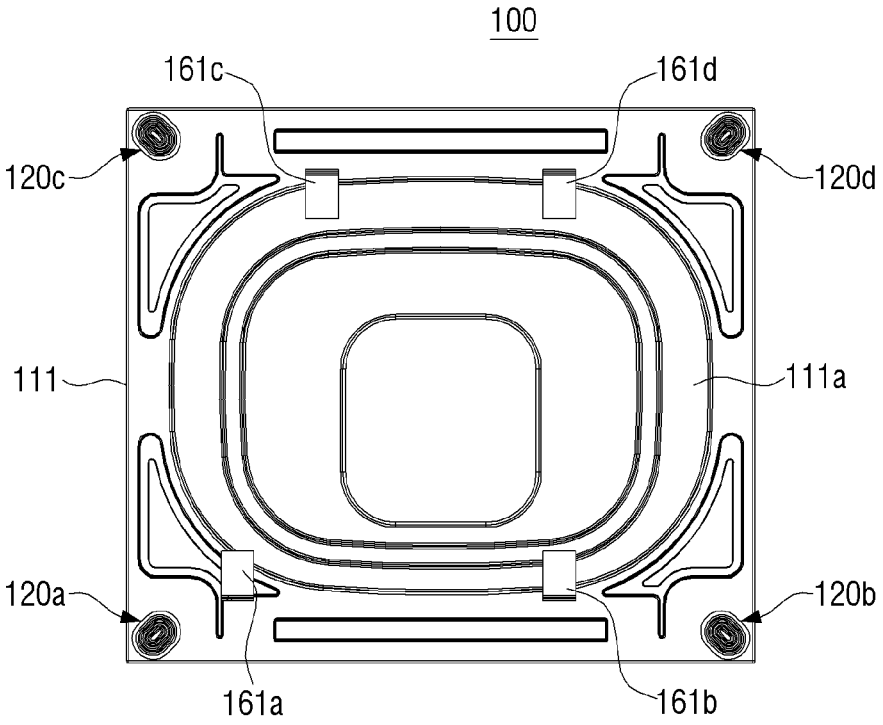


FIG. 9



# FIG. 10



# FIG. 11A

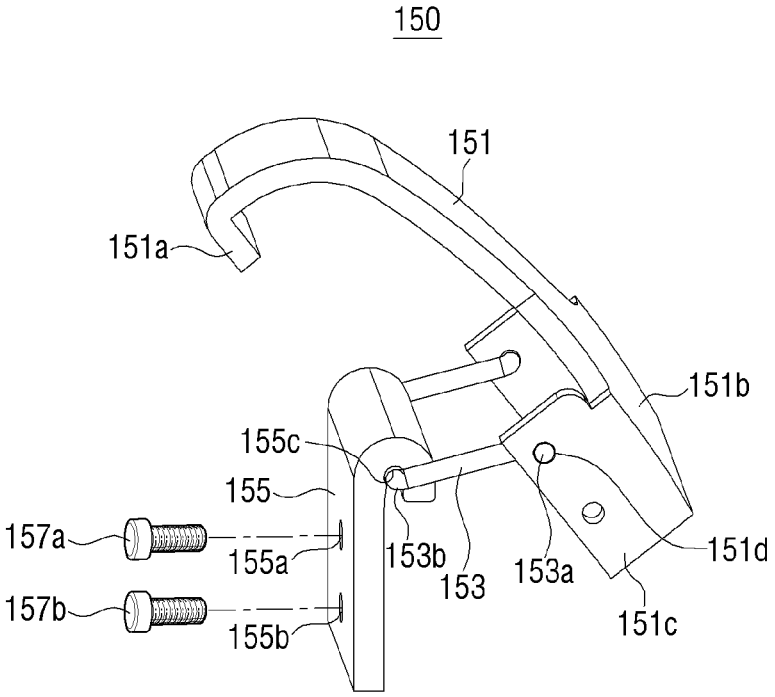

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FIG. 11B

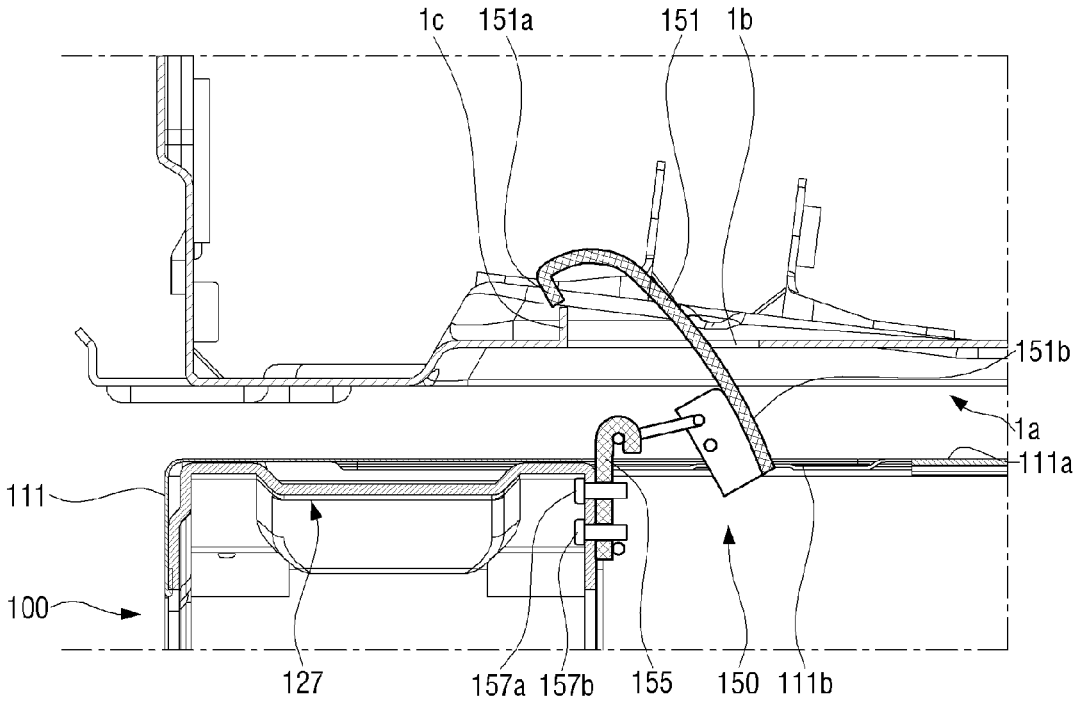
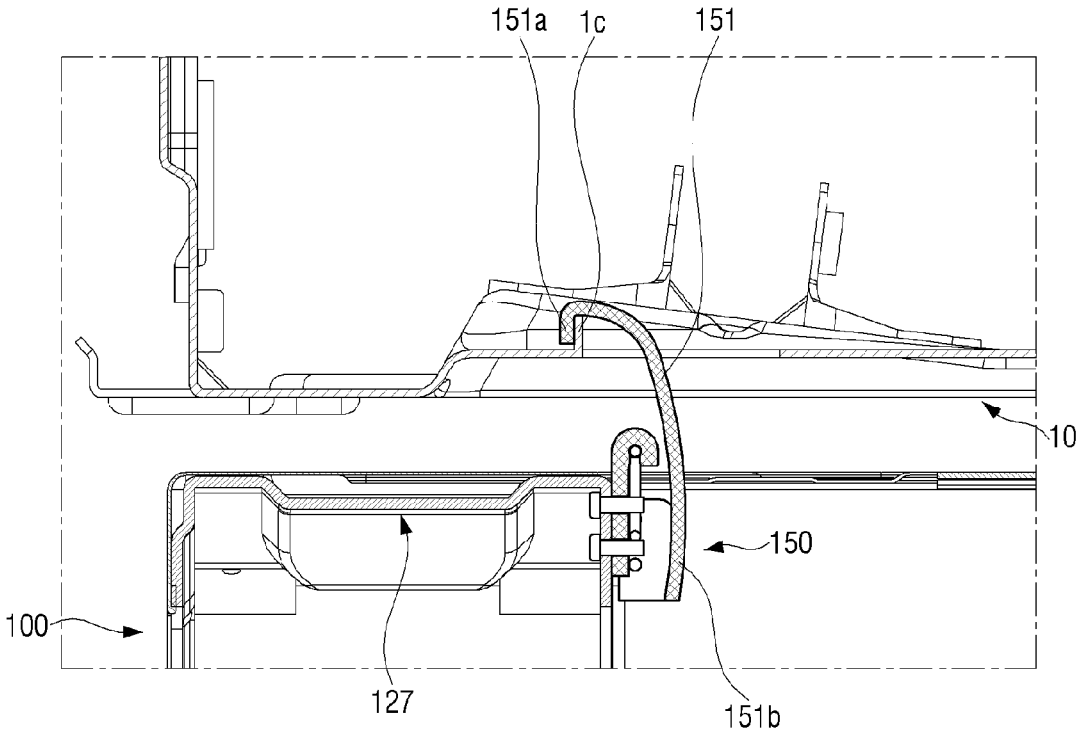


FIG. 11C



# FIG. 12

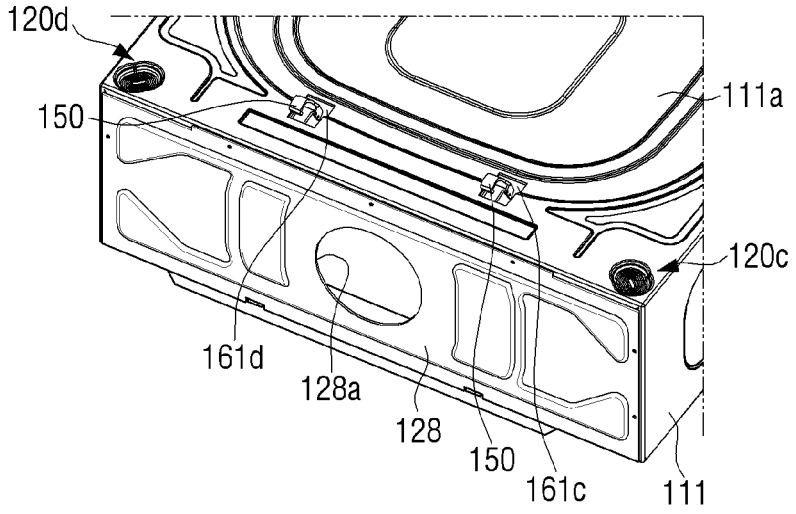


FIG. 13A

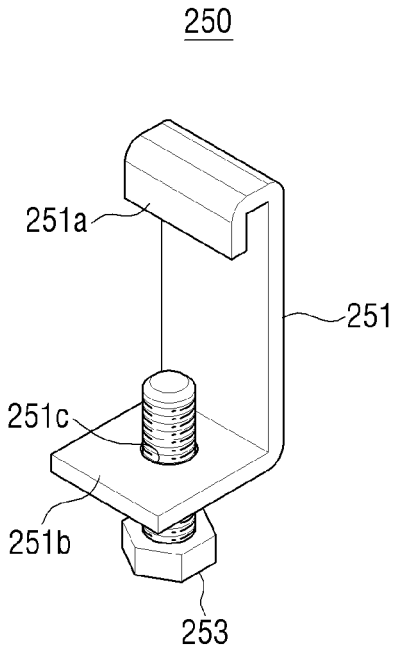


FIG. 13B

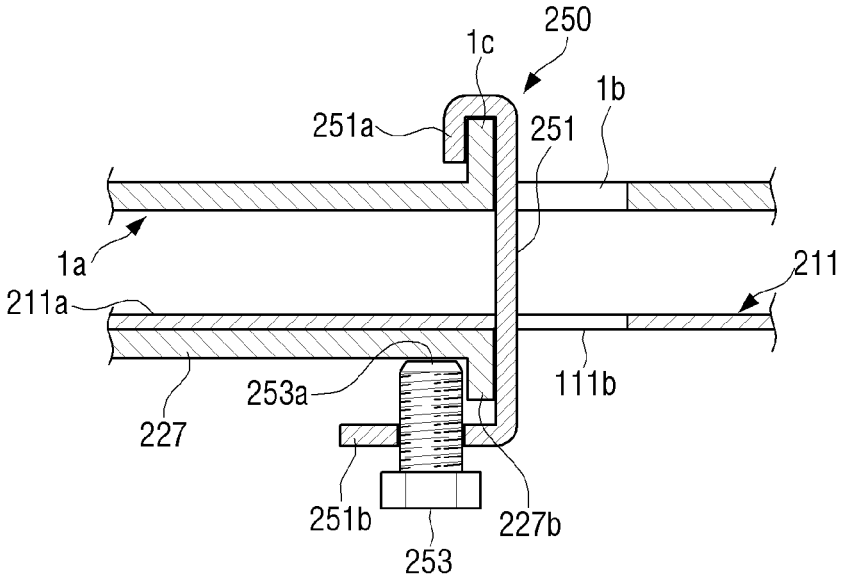


FIG. 14A

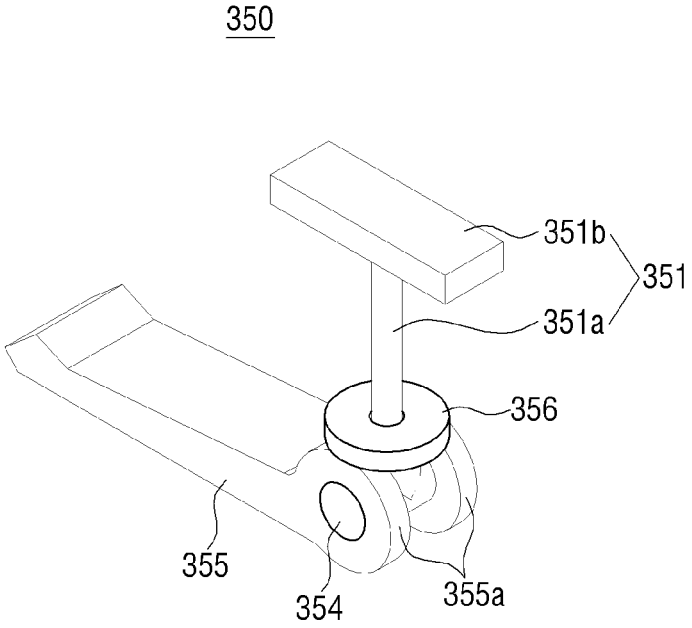


FIG. 14B

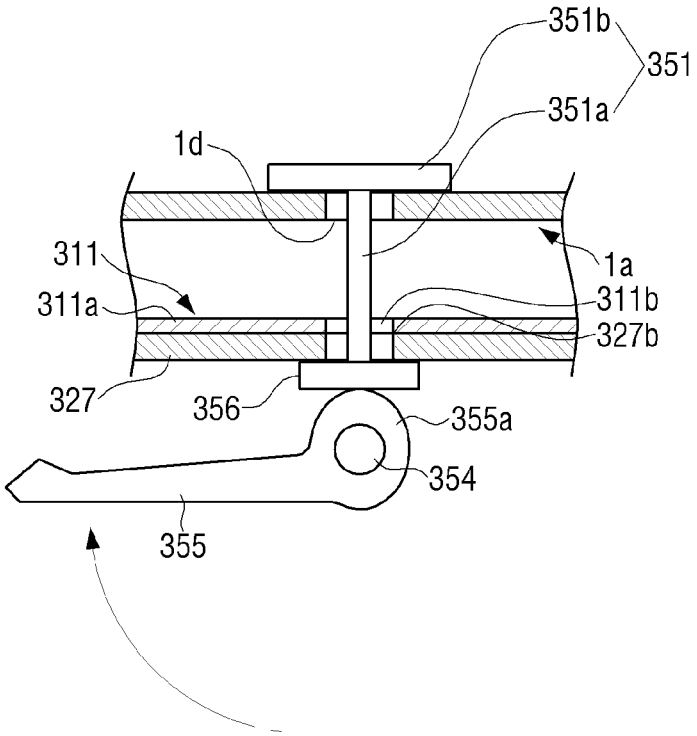
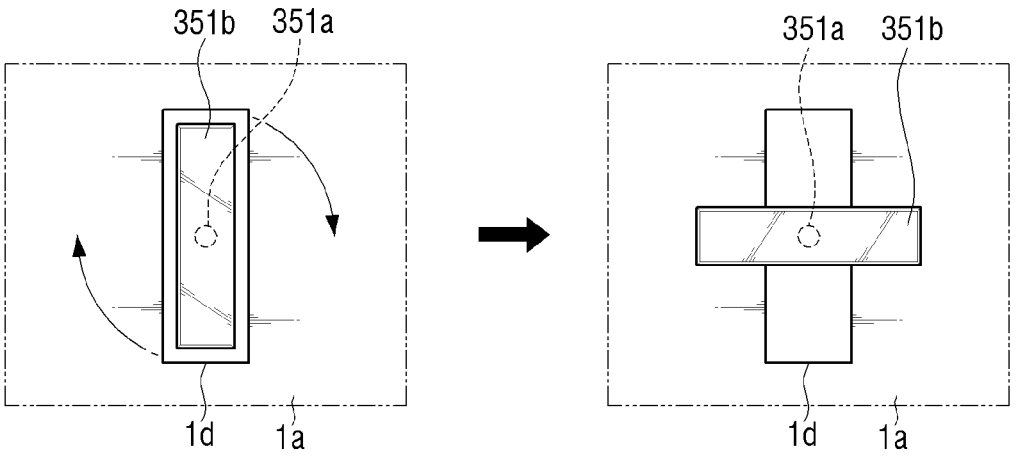


FIG. 14C



# PEDESTAL AND LAUNDRY PROCESSING APPARATUS HAVING THE SAME

## CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority under 35 U.S.C. §119(a) to Korean Patent Application No. 10-2014-0085418, filed on Jul. 8, 2014, in the Korean Intellectual Property Office, the disclosure of which is incorporated herein by reference.

## BACKGROUND

1. Field

Example embodiments of the present disclosure relate to a pedestal and a laundry processing apparatus having the same, and more particularly to a pedestal, on which a washing machine or a dryer is seated, and a laundry processing apparatus having the same.

2. Description of the Related Art

In general, a pedestal for a washing machine or dryer has a seat structure on which four legs that are coupled to four corners of a bottom portion of the washing machine or dryer are seated.

For example, a pedestal for a washing machine in the related art includes a leg seat plate, a leg fastening member, and a cover portion as a seat structure for legs of the washing machine.

The leg seat plate is fixed to corners of an upper portion of the pedestal using fastening screws, and has projections for fixing the legs. The leg fastening member is manufactured as a substantially handcuff-shaped injection-molded material, and is installed on the leg seat plate to surround the leg of the washing machine, which is seated on the leg seat plate. Then, both sides of the fastening member are fastened again by fastening screws.

After the legs of the washing machine are seated on and fixed to the leg seat structure that is provided on the pedestal, the cover portion for hiding the leg seat structure to secure visibility is positioned on the corner of the pedestal, and then is fixedly fastened to the pedestal through separate screws.

As described above, since the seat structure that is provided on the pedestal in the related art is composed of a large number of components, the manufacturing cost of the product is increased, and as a result, the assembling work to manufacture the product becomes very complicated.

Further, when operators put the heavy washing machine or dryer on the pedestal, not only the legs provided on the bottom portion of the washing machine or dryer, but also the leg seat plate installed on the pedestal may get out of the operators' visual field. Thus, it becomes difficult for the operators to put the legs of the washing machine on accurate seat points. If the legs of the washing machine are not accurately seated on the seat points, but are put on the projections of the leg seat plate, the projections may be easily damaged due to the weight of the washing machine.

## SUMMARY

Additional aspects and/or advantages will be set forth in part in the description which follows and, in part, will be apparent from the description, or may be learned by practice of the invention.

The present disclosure has been made to address at least the above problems and/or disadvantages and to provide at least the advantages described below. Accordingly, an aspect of the present disclosure provides a pedestal and a laundry processing apparatus having the same, which can simplify the structure through integral forming of a leg seat portion of a washing machine or a dryer with a housing, and can firmly fix the washing machine or the dryer that is seated on the pedestal in a state where the washing machine or the dryer is pulled toward the pedestal side.



Another aspect of the present disclosure provides a pedestal and a laundry processing apparatus having the same, which can accurately position legs of a washing machine or a dryer onto seat points when the washing machine or the dryer is put on the pedestal.

According to an aspect of the present disclosure, a pedestal includes a frame portion on which a plurality of legs coupled to a bottom surface of a laundry processor are seated; a housing configured to surround the frame portion; and a plurality of seat portions recessively formed on an upper portion of the housing in a body with the housing to form a plurality of leg seat points.

The plurality of seat portions may form openings to expose a part of the frame portion out of the housing.

The plurality of seat portions may be formed to be bent in multistage so that the seat portions become narrower as going from an upper portion of the housing to an inside of the housing.

Each of the plurality of seat portions may include an inclined portion that is downwardly inclined to the inside thereof.

The plurality of seat portions may be in "8"-shaped so that positions of the plurality of legs correspond to different seat points of the laundry processor.

The pedestal may further include a plurality of vibration absorption members arranged on the plurality of seat portions.

Each of the plurality of vibration absorption members may includes first and second anti-skid projections formed on an upper surface and a lower surface thereof to form a plurality of closed curves.

The pedestal may further include a plurality of clamping members each of which has one end that is connected to the laundry processor and the other end that is connected to the frame portion in order to fix the laundry processor to the pedestal.

The plurality of clamping members may pull the laundry processor toward the pedestal side in a locking state.

The plurality of clamping members may simultaneously penetrate a bottom portion of the laundry processor and the upper portion of the housing.

Each of the plurality of clamping members may include one end portion that is separably locked to be fixed to a part of the laundry processor and the other end portion that is screw-fastened to the frame portion.

Each of the plurality of clamping members may include a connection member including a hook portion fixed to a locking protrusion formed on a bottom portion of the laundry processor, a bent portion screw-fastened to the frame portion, and a projection portion provided between the hook portion and the bent portion to press a part of the frame portion; and a fastening screw screw-fastened to the bent portion through the housing and the frame portion.

Each of the plurality of clamping member may include one end portion that is separably locked to be fixed to a part of the laundry processor and the other end portion that is pressingly fixed to a part of the frame portion.

Each of the plurality of clamping members may include a connection member including a hook portion separably fixed to a locking protrusion formed on a bottom portion of the laundry processor; a fixed piece fixed to the frame portion;

and a link having one end hinge-connected to the connection member and the other end hinge-connected to the fixed piece, wherein the connection member maintains the clamping member in a locking state through pressing of the hook portion toward the fixed piece side in a state where the hook portion is fixed to the locking protrusion.

Each of the plurality of clamping members may include a connection member including a hook portion separably locked to be fixed to a first locking protrusion formed on a bottom portion of the laundry processor and a bent portion having a fastening hole formed thereon; and a fastening screw fastened to the fastening hole and having a front end portion that presses the frame portion.

The frame portion may further include a second locking protrusion to fix the fastening screw to the frame portion.

Each of the plurality of clamping members may include a connection member including a vertical rod and a holding piece formed at one end of the vertical rod at right angles to the vertical rod; and a lever member hinge-connected to the other end of the vertical rod, wherein the lever member maintains the clamping member in a locking state through swing toward the frame portion in a state where the holding piece is locked to be fixed to a bottom portion of the laundry processor.

According to another aspect of the present disclosure, a laundry processing apparatus includes a laundry processor; and a pedestal including a frame portion on which a plurality of legs coupled to a bottom surface of a laundry processor are seated, a housing configured to surround the frame portion, and a plurality of seat portions recessively formed on an upper portion of the housing in a body with the housing to form a plurality of leg seat points.

The plurality of seat portions may form openings to expose a part of the frame portion out of the housing.

The laundry processing apparatus may further include a plurality of vibration absorption members arranged on the plurality of seat portions.

The laundry processor may be a washing machine or a dryer, and the plurality of seat portions may be in "8"-shaped so as to correspond to positions of the respective legs of the washing machine or the dryer.

The laundry processing apparatus may further include a plurality of clamping members configured to fix the laundry processor to the pedestal, and each of the clamping members has one end that is fixed to the laundry processor through penetrating of a bottom surface of the laundry processor and the other end that is fixed to the frame portion through penetrating of the upper portion of the housing.

Each of the plurality of clamping member may include one end portion that is separably locked to be fixed to a part of the laundry processor and the other end portion that is screw-fastened or pressingly fixed to a part of the frame portion.

## BRIEF DESCRIPTION OF THE DRAWINGS

The above and other aspects, features and advantages of the present disclosure will be more apparent from the following detailed description when taken in conjunction with the accompanying drawings, in which:

FIG. **1** is a perspective view illustrating a pedestal and a washing machine seated thereon according to an example embodiment of the present disclosure;

FIG. **2** is a perspective view illustrating the pedestal of FIG. **1**;

FIG. **3** is an enlarged perspective view illustrating a seat portion of a pedestal on which legs of a washing machine are seated;

FIG. **4** is a plan view illustrating the pedestal of FIG. **2**;

FIG. **5** is a cross-sectional view taken along line V-V of FIG. **4**;

FIG. **6** is a perspective view illustrating a state where a frame portion is arranged on an inside of a housing;

FIG. **7** is a cross-sectional view illustrating a state where a leg of a laundry processor is seated on a seat portion of a pedestal;

FIG. **8**A is a perspective view illustrating a clamping member for fixing a washing machine to a pedestal;

FIGS. **8**B and **8**C are schematic cross-sectional views explaining a process of fixing a washing machine to a pedestal using the clamping member of FIG. **8**A;

FIG. **9** is a perspective view illustrating the rear of the pedestal of FIG. **2**;

FIG. **10** is a plan view illustrating a pedestal according to another example embodiment of the present disclosure;

FIG. **11**A is a perspective view illustrating a clamping member applied to the pedestal of FIG. **10**;

FIGS. **11**B and **11**C are schematic cross-sectional views explaining a process of fixing a washing machine to a pedestal using the clamping member of FIG. **11**A;

FIG. **12** is a perspective view illustrating the rear of the pedestal of FIG. **10**;

FIG. **13**A is a perspective view illustrating another example of a clamping member;

FIG. **13**B is a cross-sectional view illustrating a state where a washing machine is fixed to a pedestal using the clamping member of FIG. **13**A;

FIG. **14**A is a perspective view illustrating still another example of a clamping member;

FIG. **14**B is a cross-sectional view illustrating a state where a washing machine is fixed to a pedestal using the clamping member of FIG. **14**A; and

FIG. **14**C is a schematic view illustrating a state where a locking piece of the clamping member of FIG. **14**A is held on a bottom portion of a washing machine.

## DETAILED DESCRIPTION

Hereinafter, example embodiments of the present disclosure will be described in detail with reference to the accompanying drawings, wherein like reference numerals refer to the like elements throughout. The embodiments to be described hereinafter are exemplary to help a comprehensive understanding of the present disclosure, and in the drawings, to help the understanding of the present disclosure, sizes of some constituent elements may be exaggerated for clarity in explanation.

In an example embodiment to be described hereinafter, it is exemplified that a laundry processor is a drum type washing machine into which laundry is put from the front of the washing machine, however, the present disclosure is not limited thereto. For example, the present disclosure may also be applied to a top-loading type washing machine (not illustrated) into which laundry is put from the upper side or a dryer (not illustrated) having a laundry drying function only.

Referring to FIG. **1**, a pedestal **10** and a washing machine **1** having the same according to an example embodiment of the present disclosure are illustrated.

The washing machine **1** includes a door **5** installed in the front side of a main body **3** to put laundry therethrough, a

control knob **7***a* provided on an upper end portion of the front of the main body **3**, and a display panel **7***b* displaying laundry processing status.

The pedestal **10** is arranged on a lower side of the washing machine **1**, and includes a housing **11** and a drawer **13** for accommodation that is slidably coupled to the front of the housing **11**.

Referring to FIGS. **2** and **4**, the pedestal **10** is roughly in a cuboidal shape, and at four corners of the upper portion **11***a* thereof, a plurality of seat portions **20***a* to **20***d*, which are in a recessed shape, are integrally formed with the housing **11**.

The plurality of seat portions **20***a* to **20***d* form seat points of legs **8** (see FIG. **6**) installed at four corners of a bottom surface of the washing machine **1**.

Further, the plurality of seat portions **20***a* to **20***d* are roughly in the shape of a numeral **8**, on the upper portion **11***a* of the housing **11**, and this is to selectively seat any one of the washing machine **1** and the dryer (not illustrated) on the pedestal **10**. However, the seat portions may have other shapes, and thus, the present disclosure is not limited thereto.

That is, a plurality of legs (not illustrated) provided at four corners of a bottom portion of the dryer are arranged further inside than a plurality of legs of the washing machine **1**. This is to secure a predetermined region in which a gap between a lower end of the dryer and an upper end of the pedestal **10** is sealed by a sealant (e.g., paste type sealant) so as to maintain airtight between the dryer and the pedestal **10** in the case of the dryer.

Since the plurality of seat portions **20***a* to **20***d* have the same shape, only one **20***a* of the plurality of seat portions **20***a* to **20***d* will be described.

Referring to FIG. **3**, the seat portion **20***a* may be formed through a press processing to press four corners of the upper portion **11***a* of the housing **11** in a direction of the inside of the housing **11**.

In this case, the seat portion **20***a* may be formed to be bent in multistage in a direction of the lower side through the press processing, and an opening **25** is formed on a lower portion thereof. In this case, a frame portion **27** is exposed to an outside of the housing **11** through the respective openings **25** of the plurality of seat portions **20***a*.

Referring to FIG. **5**, the multistage bent structure of the seat portion **20***a* may be formed to be narrower in the direction from the upper portion **11***a* of the housing **11** to the inside of the housing **11**.

The seat portion **20***a* includes an inclined portion **22***a* downwardly inclined toward the inside of the seat portion **20***a*, a curved portion **22***b* and a straight portion **22***c* that are successively formed to extend from a lower end of the inclined portion **22***a*.

When operators lift and put the washing machine **1** on the pedestal **10**, the inclined portion **22***a* guides a bottom portion **8***a* or a peripheral portion **8***b* of the leg **8** to the inside of the seat portion **20***a* so that the leg **8** of the washing machine **1** can be accurately inserted into the seat portion **20***a*.

The curved portion **22***b* is a portion that naturally connects the inclined portion **22***a* and the vertical portion **22***c* to each other, and guides the bottom portion **8***a* or the peripheral portion **8***b* of the leg **8**, which is guided along the inclined portion **22***a*, to a place where the vertical portion **22***c* is positioned.

For example, the vertical portion **22***c* may have the same diameter as the diameter of the peripheral portion **8***b* so that the vertical portion **22***c* comes in close contact with the peripheral portion **8***b* without tolerance, and thus the leg **8** can be firmly arranged in the seat portion **20***a* without movement. However, the present disclosure is not limited thereto.

Referring to FIG. **6**, the frame portion **27** serves to substantially support the weight of the washing machine **1**, and is surrounded by the housing **11**.

For example, the frame portion **27** may be formed with a thickness that is thicker than the thickness of the housing **11** to have a predetermined strength. For example, if the thickness of the housing **11** is 5 mm, the frame portion **27** may be formed with a thickness of about 20 mm, however, these are examples, and thus, the present disclosure is not limited thereto.

The frame portion **27** is fastened to the inside of the housing **11** by a typical fastener (not illustrated). In this case, for example, the height of the frame portion **27** is set so that an upper portion **27***a* of the frame portion **27** is in a position that reaches or is adjacent to the opening **25**.

Accordingly, a bottom portion **8***a* of the leg **8** that is guided by the seat portion **20***a* may be directly seated on the upper portion **27***a* of the frame portion **27** or may be seated on a vibration absorption member **40** that is seated on the upper portion **27***a* of the frame portion **27** as shown in FIGS. **5** and **7**.

A plurality of vibration absorption members **40** may be provided to be arranged on the plurality of seat portions **20***a* to **20***d*, respectively. The vibration absorption member **40** has a predetermined thickness, and the outline of the vibration absorption member **40** substantially corresponds to the vertical portion **22***c* of the seat portion **20***a*.

The vibration absorption member **40** may be made of a rubber material or a synthetic resin material having elasticity. When the leg **8** of the washing machine **1** is seated as shown in FIG. **7**, the vibration absorption member **40** can elastically support the leg **8** to absorb vibration that is generated when the washing machine **1** operates, and thus walking phenomenon of the leg **8** can be prevented.

Further, the vibration absorption member **40** has first and second anti-skid projections **41** and **42** (see FIGS. **3** and **5**) formed on an upper surface and a lower surface thereof to form a plurality of closed curves.

The first and second anti-skid projections **41** and **42** can prevent the leg **8** that is seated on the vibration absorption member **40** from skidding due to the vibration that is generated when the washing machine **1** operates.

For example, according to the drum type washing machine **1**, a drum is arranged to be downwardly inclined toward the rear of the washing machine **1**, and thus the center of weight is positioned in the rear of the washing machine **1** when the washing machine **1** operates. Accordingly, when the washing machine **1** operates, the washing machine **1** is inclined toward the rear of the washing machine **1** at a predetermined angle, and thus the front portion of the washing machine **1** repeats to be lifted for a predetermined distance and then return to its original position. Accordingly, a pair of legs **8** that are arranged in front of the bottom portion **1***a* of the washing machine **1** repeat to be separated from the vibration absorption member **40** and to be seated on the vibration absorption member **40**.

In this case, when the leg **8** is seated on the vibration absorption member **40**, the first anti-skid projection **41** helps the leg **8** to stably land on the vibration absorption member **40** without skidding.

On the other hand, the anti-skid projections **41** and **42** that are formed on the vibration absorption member **40** may be limitedly formed on only one of both surfaces of the vibration absorption member **40**, which faces the leg **8** of the

washing machine **1**. However, depending on embodiments, the anti-skid projections **41** and **42** may be formed on both surfaces of the vibration absorption member **40** for convenience in work when an operator installs the pedestal **10** and the washing machine **1**.

Further, according to the example embodiment of the present disclosure described above, the pedestal **10** may further include a plurality of clamping members **50** for fixing the washing machine **1** that is seated on the pedestal **10** to the pedestal **10**.

Parts of the plurality of clamping members **50** are positioned between one pair of seat portions **20***a* and **20***b*, and the remainders thereof are positioned between the other pair of seat portions **20***c* and **20***d*. In this case, the plurality of clamping members **50** may be arranged adjacent to the plurality of seat portions **20***a* to **20***d*, respectively.

Referring to FIG. **4**, a plurality of second through-holes **61***a* to **61***d* are formed at predetermined intervals around the plurality of seat portions **20***a* to **20***d*. Further, positions where the plurality of clamping members **50** are installed are positions that correspond to the plurality of second through-holes **61***a* to **61***d*. For example, a pair of through-holes **61***a* and **61***b* among the plurality of through-holes **61***a* to **61***d* are arranged adjacent to the front of the pedestal **10**, and the remaining pair of through-holes **61***c* and **61***d* are arranged adjacent to the rear of the pedestal **10**. Such an arrangement considers an easy access of an operator's hand to the inside of the pedestal **10** when the plurality of clamping members **50** are installed. However, this arrangement is an example, and thus, the present disclosure is not limited thereto.

Referring to FIG. **8**A, each of the plurality of clamping members **50** includes a single connection member **51** and a fastening screw **53**. A hook portion **51***a* is formed at an upper end of the connection member **51**, a curved projection portion **51***b* is formed near the center thereof, and a bent portion **51***c* having a screw hole **51***d* to which the fastening screw **53** is fastened is formed at a lower end thereof.

Referring to FIGS. **8**B and **8**C, a process of fixing the washing machine **1** to the pedestal **10** through the clamping members **50** will be described in order.

First, in a state where a drawer **13** of the pedestal **10** is opened, the connection member **51** is brought to the inside of the drawer **13**, and then approaches an installation position.

Then, as shown in FIG. **8**B, the hook portion **51***a* of the connection member **51** is locked to be fixed to a locking protrusion **1***c* that protrudes around the first through-hole **1***b* after successively passing through the first through-hole **27***b* formed on the frame portion **27**, the second through-hole **11***b* of the housing **11**, and the first through-hole **1***b* formed on the bottom portion **1***a* of the washing machine **1**.

In this state, as shown in FIG. **8**C, in a state where the bent portion **51***c* of the connection member **51** is pulled toward the frame portion **27** on which a plurality of holes **71** and **72** are formed, the fastening screw **53** may be fastened to any one of the plurality of holes **71** and **72** and the screw hole **51***d* of the bent portion **51***c* to fix the bent portion **51***c* of the connection member **51** to the frame portion **27**.

In this case, since the hook portion **51***a* of the connection member **51** is formed to be locked on the locking protrusion **1***c*, the hook portion **51***a* can be easily fixed to the locking protrusion **1***c* even without operator's confirmation with the naked eye.

Through the above-described installation process, an operator can install the clamping member **50** in a state where the washing machine **1** and the pedestal **10** are not laid down on the floor but are in a stand state, and thus the work efficiency can be improved.

On the other hand, since the plurality of clamping members **50** that are installed on the washing machine **1** and the pedestal **10** are not exposed to an outside but are naturally concealed, visibility can be improved. That is, an operator can install the clamping member **50** in a state where the washing machine **1** stands on the pedestal **10**.

As described above, in the process of fastening the bent portion **51***c* of the connection member **51** to the frame portion **27** through the fastening screw **53**, the hook portion **51***c* of the connection member **51** is pulled toward the pedestal **10**. In this case, the projection portion **51***b* presses an inner periphery **27***d* of the first through-hole **27***b* of the frame portion **27**, and the washing machine **1** is pulled toward the pedestal **10**. As a result, the plurality of legs **8** of the washing machine **1** strongly comes in close contact with the side of the frame portion **27**, and thus the washing machine **1** can be firmly fixed to the pedestal **10**.

On the other hand, in the case where the clamping member **50** are installed in the rear of the pedestal **10**, as shown in FIG. **9**, the operator can perform the installation work in a state where the connection member **51** is put into the inside of the pedestal **10** through a pair of through-holes **28***a* and **28***b* formed on both sides of a rear cover **28** installed on the housing **11** with a size enough for the operator's hand to pass therethrough.

Hereinafter, referring to FIGS. **10** to **12**, the configuration of a pedestal **100** according to another example embodiment of the present disclosure will be described. The configuration of the pedestal **100** including a housing **111** and a plurality of seat members **120***a* to **120***d* is mostly similar to the configuration of the pedestal **10** according to the example embodiment as described above, but the structure of clamping members **150**, a part of the pedestal **100** for installing the clamping members **150**, and a part of a bottom portion **1***a* of the washing machine **1** of the pedestal **100** according to this example embodiment of the present disclosure are different from those of the pedestal **10** according to the example embodiment described above. In explaining the pedestal **100** according to this example embodiment, explanation of the same configuration as the configuration of the pedestal **10** according to the example embodiment as described above will be omitted.

Referring to FIG. **10**, a housing **111** includes a plurality of second through-holes **161***a* to **161** *d* which are formed on an upper portion **111***a* thereof and through which a plurality of clamping members **150** pass.

Referring to FIG. **11**A, each clamping member **150** includes a connection member **151**, a link **153**, a fixed piece **155**, and a plurality of fastening screws **157***a* and **157***b*.

The connection member **151** includes one end at which a hook portion **151***a* is formed to be fixedly locked on a locking protrusion **1***c* formed to project to an inside of a bottom portion **1***a* of the washing machine **1**, and the other end at which a pressing portion **151***b* that is pressed by an operator is formed.

The link **153** connects the connection member **151** and the fixed piece **155** to each other. For this, one end **153***a* of the link **153** is hinge-connected to a rib portion **151***c* that is formed to extend from the pressing portion **151***b*, and the other end **153***b* of the link **153** is hinge-connected to a groove **155***c* of the fixed piece **155**.

The fixed piece **155** is fixed to a part of the frame portion **127** through a plurality of fastening screws **157***a* and **157***b*. In this case, it is also possible to fix the fixed piece **155** to a part of the frame portion **127** through another fastening means, such as rivets, instead of the plurality of fastening screws **157***a* and **157***b*, and thus, the present disclosure is not limited to the use of fastening screws **157***a* and **157***b*.

A process of fixing the washing machine **1** to the pedestal **100** through the clamping member **150** as configured above is as follows.

As shown in FIG. **11**B, the fixed piece **155** is fixedly fastened to a part of the frame portion **127** through the plurality of fastening screws **157***a* and **157***b*. In this case, an operator may directly fix the fixed piece **155** of the clamping member **150** to a part of the frame portion **127** on the spot, but fixing of the clamping member **150** is not limited thereto. It is also possible to fix the fixed piece **155** to a part of the frame portion **127** on an assembly line that is a pre-stage of merchandising.

Thereafter, the hook portion **151***a* of the connection member **151** is fixedly locked on the locking protrusion **1***c* that is formed on the bottom portion **1***a* of the washing machine **1** to protrude to the inside of the washing machine **1** after successively passing through the second through-hole **111***b* of the housing **111** and the first through-hole **1***b* of the bottom portion **1***a* of the washing machine **1**.

In this state, if the pressing portion **151***b* of the connection member **151** is pressed in a direction that is downwardly inclined toward the side of the fixed piece **155**, the connection member **151** is substantially vertically arranged as shown in FIG. **11**C, and thus the hook portion **151***a* of the connection member **151** pulls the locking protrusion **1***c* toward the side of the pedestal **100**. Accordingly, the clamping member **150** is arranged between the washing machine **1** and the pedestal **100** in an urged state to firmly fix the washing machine **1** to the pedestal **100**.

On the other hand, in the case where the clamping member **150** is installed in the rear of the pedestal **100**, as shown in FIG. **12**, an operator can put his/her hand into a single through-hole **128***a* that is formed substantially in the center of a rear cover **128** installed on the housing **111**, and thus can easily perform the installation work of the clamping member **150**.

On the other hand, in addition to the clamping members **50** and **150** according to the example embodiments as described above, clamping members **250** and **350** having various structures as illustrated in FIGS. **13**A to **14**C can firmly fix the washing machine **1** to the **10** and **100**, as well.

First, referring to FIGS. **13**A and **13**B, the clamping member **250** may include a connection member **251** and a fastening screw **253**.

The connection member **251** has one end at which a hook portion **251***a* is formed and the other end at which a bent portion **251***b* is formed. A screw hole **251***c*, through which the fastening screw **253** is fastened, is formed on the bent portion **251***b*.

Referring to FIG. **13**B, a process of installing the clamping member **250** will be described. First, in a state where the hook portion **251***a* of the connection member **251** is fixedly locked on the first locking protrusion **1***c* of the bottom portion **1***a* of the washing machine **1**, the bent portion **251***b* of the connection member **251** is positioned adjacent to the lower side of a part of the frame portion **227**, and then the fastening screw **253** is fastened to the screw hole **251***c* of the bent portion **251***b*.

In this case, by rotating the fastening screw **253**, a front end portion **253***a* of the fastening screw **253** presses a part of the frame portion **227**, and thus the hook portion **251***a* of the connection member **251** pulls the first locking protrusion **1***c* toward the upper portion **211***a* of the housing **211** to make the clamping member **250** in a locking state. Accordingly, the washing machine **1** is pulled toward the pedestal side, and thus can be firmly fixed to the pedestal.

Around a part of the frame portion **227** that is pressed by the fastening screw **253**, a second locking protrusion **227***b* is formed to project toward the inside of the housing **211**. As the fastening screw **253** is fastened, force by which the front end portion **253***a* of the fastening screw **253** presses the frame portion **227** is increased, and thus the second locking protrusion **227***b* is prevented from skidding on the pressed surface of the frame portion **227** to secede from the frame portion **227**.

In addition, referring to FIG. **14**A, the clamping member **350** may include a connection member **351**, a lever member **355**, and a washer **356**.

The connection member **351** may include a vertical rod **351***a*, and a holding piece **351***b* that is formed to extend from one end of the vertical rod **351***a*. In this case, as an example, the holding piece **351***b* may be formed substantially at right angles to the length direction of the vertical rod **351***a*.

The lever member **355** is hinge-connected to the other end of the vertical rod **351***a* through a hinge piece **354**. In this case, a cam portion **355***a* is formed on one portion of the lever member **355** that corresponds to a hinge pin **354**. Since the cam portion **355***a* is formed to project substantially in a semi-elliptical shape, a part of a frame portion **327** may be selectively pressed or press-released through rotating of the lever member **355** in one direction or in an opposite direction at a predetermined angle.

The washer **356** is coupled to the vertical rod **351***a*, and if the lever member **355** swings toward the side of the frame portion **327**, the washer **356** is pressed toward the side of the frame portion **327** by the cam portion **355***a*.

Referring to FIGS. **14**B and **14**C, in order to install the clamping member **350**, the holding piece **351***b* of the connection member **351** is rotated at a predetermined angle so that the holding piece **351***b* is held on the bottom portion **1***a* of the washing machine **1** after successively passing through the through-holes **327***b*, **311***b*, and **1***d* of the frame portion **327**, the housing **311**, and the bottom portion **1***a* of the washing machine **1**.

If the lever member **355** is rotated toward the frame portion **327** and the upper portion of the housing **311***a* in this state, the cam portion **355***a* swings about the hinge pin **354** together with the lever member **355** to press the frame portion **327** through the washer **356**. Accordingly, the clamping member **350** becomes in a locking state, and the washing machine **1** is pulled toward the pedestal to be firmly fixed to the pedestal.

The clamping members **50**, **150**, **250**, and **350** as described above have somewhat different configurations, but commonly pull the washing machine **1** toward the pedestals **10** and **100** to improve the mutual fixing force between the washing machine **1** and the pedestals **10** and **100**.

Although a few embodiments have been shown and described, it would be appreciated by those skilled in the art that changes may be made in these embodiments without departing from the principles and spirit of the invention, the scope of which is defined in the claims and their equivalents.

What is claimed is:

**1**. A pedestal comprising:

a frame portion configured to seat a plurality of legs coupled to a bottom surface of a laundry processor;

a housing configured to surround the frame portion; and

a plurality of seat portions recessively formed on an upper portion of the housing to form a plurality of leg seat points,

wherein

the plurality of seat portions are formed to be bent in multiple stages, each of the plurality of seat portions including an inclined portion extending from the upper portion of the housing and inclined at a first non-horizontal angle, curved portion extending from the inclined portion, and a vertical straight portion extending from the curved portion.

**2**. The pedestal as claimed in claim **1**, wherein the plurality of seat portions form openings to expose a part of the frame portion.

**3**. The pedestal as claimed in claim **2**, wherein the multiple stages are formed so that the seat portions become narrower in a direction from an upper portion of the housing to an inside of the housing.

**4**. The pedestal as claimed in claim **2**, further comprising a plurality of clamping members each of which has one end that is configured to be connected to the laundry processor and a second end that is connected to the frame portion in order to fix the laundry processor to the pedestal.

**5**. The pedestal as claimed in claim **4**, wherein the plurality of clamping members are configured to pull the laundry processor toward the pedestal in a locking state.

**6**. The pedestal as claimed in claim **4**, wherein the plurality of clamping members are configured to simultaneously penetrate a bottom portion of the laundry processor and the upper portion of the housing when the pedestal is coupled to the laundry processor.

**7**. The pedestal as claimed in claim **4**, wherein each of the plurality of clamping members comprises one end portion that is configured to be separably locked and fixed to a part of the laundry processor and a second end portion that is screw-fastened to the frame portion.

**8**. The pedestal as claimed in claim **7**, wherein each of the plurality of clamping members comprises:

a connection member including a hook portion configured to be fixed to a locking protrusion formed on a bottom portion of the laundry processor, a bent portion screw-fastened to the frame portion, and a projection portion provided between the hook portion and the bent portion to press a part of the frame portion; and

a fastening screw screw-fastened to the bent portion through the housing and the frame portion.

**9**. The pedestal as claimed in claim **4**, wherein each of the plurality of clamping member comprises one end portion that is configured to be separably locked and fixed to a part of the laundry processor and a second end portion that is pressingly fixed to a part of the frame portion.

**10**. The pedestal as claimed in claim **9**, wherein each of the plurality of clamping members comprises:

a connection member including a hook portion configured to be separably fixed to a locking protrusion formed on a bottom portion of the laundry processor;

a fixed piece fixed to the frame portion; and

a link having one end hinge-connected to the connection member and a second end hinge-connected to the fixed piece,

wherein the connection member maintains the clamping member in a locked state through pressing of the hook portion toward the fixed piece in a state where the hook portion is fixed to the locking protrusion.

**11**. The pedestal as claimed in claim **9**, wherein each of the plurality of clamping members comprises:

a connection member including a hook portion configured to be separably locked and fixed to a first locking protrusion formed on a bottom portion of the laundry processor and a bent portion having a fastening hole formed thereon; and

a fastening screw fastened to the fastening hole and having a front end portion that presses the frame portion.

**12**. The pedestal as claimed in claim **11**, wherein the frame portion further comprises a second locking protrusion to fix the fastening screw to the frame portion.

**13**. The pedestal as claimed in claim **9**, wherein each of the plurality of clamping members comprises:

a connection member including a vertical rod and a holding piece formed at one end of the vertical rod at right angles to the vertical rod; and

a lever member hinge-connected to a second end of the vertical rod,

wherein the lever member maintains the clamping member in a locked state when the lever member is rotated toward the frame portion in a state where the holding piece is configured to be locked and fixed to a bottom portion of the laundry processor.

**14**. The pedestal as claimed in claim **1**, wherein the plurality of seat portions are "8"-shaped so that positions of the plurality of legs correspond to different seat points of the laundry processor.

**15**. The pedestal as claimed in claim **1**, further comprising a plurality of vibration absorption members arranged on the plurality of seat portions.

**16**. The pedestal as claimed in claim **15**, wherein each of the plurality of vibration absorption members comprises first and second anti-skid projections formed on an upper surface and a lower surface thereof, respectively, to form a plurality of closed curves.

**17**. A laundry processing apparatus comprising:

a laundry processor; and

a pedestal including a frame portion on which a plurality of legs coupled to a bottom surface of the laundry processor are seated, a housing configured to surround the frame portion, and a plurality of seat portions recessively formed on an upper portion of the housing to form a plurality of leg seat points,

wherein

the plurality of seat portions are formed to be bent in multiple stages, each of the plurality of seat portions including an inclined portion extending from the upper portion of the housing and inclined at a first non-horizontal angle, a curved portion extending from the inclined portion, and a vertical straight portion extending from the curved portion.

**18**. The laundry processing apparatus as claimed in claim **17**, wherein the plurality of seat portions form openings to expose a part of the frame portion.

**19**. The laundry processing apparatus as claimed in claim **17**, further comprising:

a plurality of vibration absorption members arranged on the plurality of seat portions; and

a plurality of clamping members configured to fix the laundry processor to the pedestal.

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